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(54) OIL SUPPLY DEVICE FOR COMPRESSOR

(57) Abstract:

PURPOSE: To allow lubrication oil to be supplied stably and adjustably according to operational condition, by providing a valve body in an oil suction pipe immersed in an oil reservoir at its lower end, and providing a spring device having characteristics such that coefficient of linear expansion is changed at temperatures higher than a specific temperature, at one side of the valve body.

CONSTITUTION: In an oil supply control device immersed in an oil reservoir 1 of a refrigerant compressor disposed on the most upstream side of an oil supply passage, a valve body 5 having an oil passage 4 is accommodated in a cylinder 3 of an oil suction pipe 2. There is provided on a lower side of the valve body 5 a coil spring of shape memory alloy having characteristics such that coefficient of linear expansion is rapidly increased at temperature higher than a specific temperature, while there is provided in an oil passage 7 on an upper side of the valve body 5 a coil spring 8 having characteristics of normal coefficient of linear expansion. With this arrangement, lubrication oil in the oil reservoir 1 is sequentially fed through an oil passage 9, the cylinder 3, and the oil passages 4, 7 and 11. When temperature of the lubrication oil becomes higher than a specific temperature, spring constant of the coil spring 6 is increased to upwardly push the valve body 5, thereby suitably adjusting an opening degree of the oil passage between the valve body 5 and the oil passage 7.